CE-related info in the WLCG IS

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Information required by the experiments

WLCG Primary Information Sources

	Attributes vs Information Sources	Resource BDII	Site BDII	Top BDII	GOCDB	OIM	MyOSG	REBUS	Manual modifications?
ALICE	Status of CEs	D/C (CREAM)	D/C (ARC)						NO
	Number of Waiting Jobs								
	Number of Running Jobs								
ATLAS	List of services and associated information: • SEs • CEs • PerfSonars				D/C	D/C			YES
	Queue name	D		C					
	MaxCPUTime	D		C					
	MaxWallClockTime	D		C					
	List of sites and associated information				D/C	D/C			
	Site properties (Lat, Long)	D		C					
	Site downtimes				D/C	D/C			NO
	HS06	D (EGI)					D (OSG)	C	YES
	Logical CPUs	D						C	
CMS	List of CEs	D		C					NO
	Queue name	D		C					YES
	MaxCPUTime	D		C					
	MaxWallClockTime	D		C					
	Logical CPUs	D		C					
	Site downtimes				D/C	D/C			NO
LHCb	List of CEs	D		C					NO
	MaxCPUTime	D		C					
	CPUScalingReference	D		C					
	Site properties (Lat, Long)	D		C					
	Site downtimes				D/C				

Attribute	Source	Static/Dynamic	In CRIC
CE list	GocDB/OIM	static	yes
Queue list	BDII/ Condor publisher/ Glidein XML configuration file	static	yes
MaxCPUTime	BDII	Semi-static	yes
MaxWallClockTime	BDII	Semi-static	yes
HS06	BDII/MyOSG	Semi-static	yes
Logical CPU	REBUS	Semi-static	yes
# waiting jobs	BDII	dynamic	NO
# running jobs	BDII	dynamic	NO
Downtime info	GocDB	dynamic	YES

Static attributes

- For static and semi-static information we bootstrap CRIC from any available sources, can be even experiment specific
- For sites which do run BDII, we continue to use data from BDII
- For EGI sites which won't run BDII, there are two possible scenarios:
  - update info in CRIC through UI (API)
  - Expose CE/queues info in JSON file, similarly to what we agreed for storage. If we consider this option, we have to agree on the format
  - Apel client would need to be modified to get infor from CRIC instead of BDII
- For OSG sites for ATLAS get info from Condor publisher, for CMS from Glidein XML configuration file

Dynamic attributes

- The only experiment requiring dynamic attributes like number of pending/running jobs is ALICE

- ALICE will continue to rely on BDII where it is available. For sites which won't run BDII, there is a way around